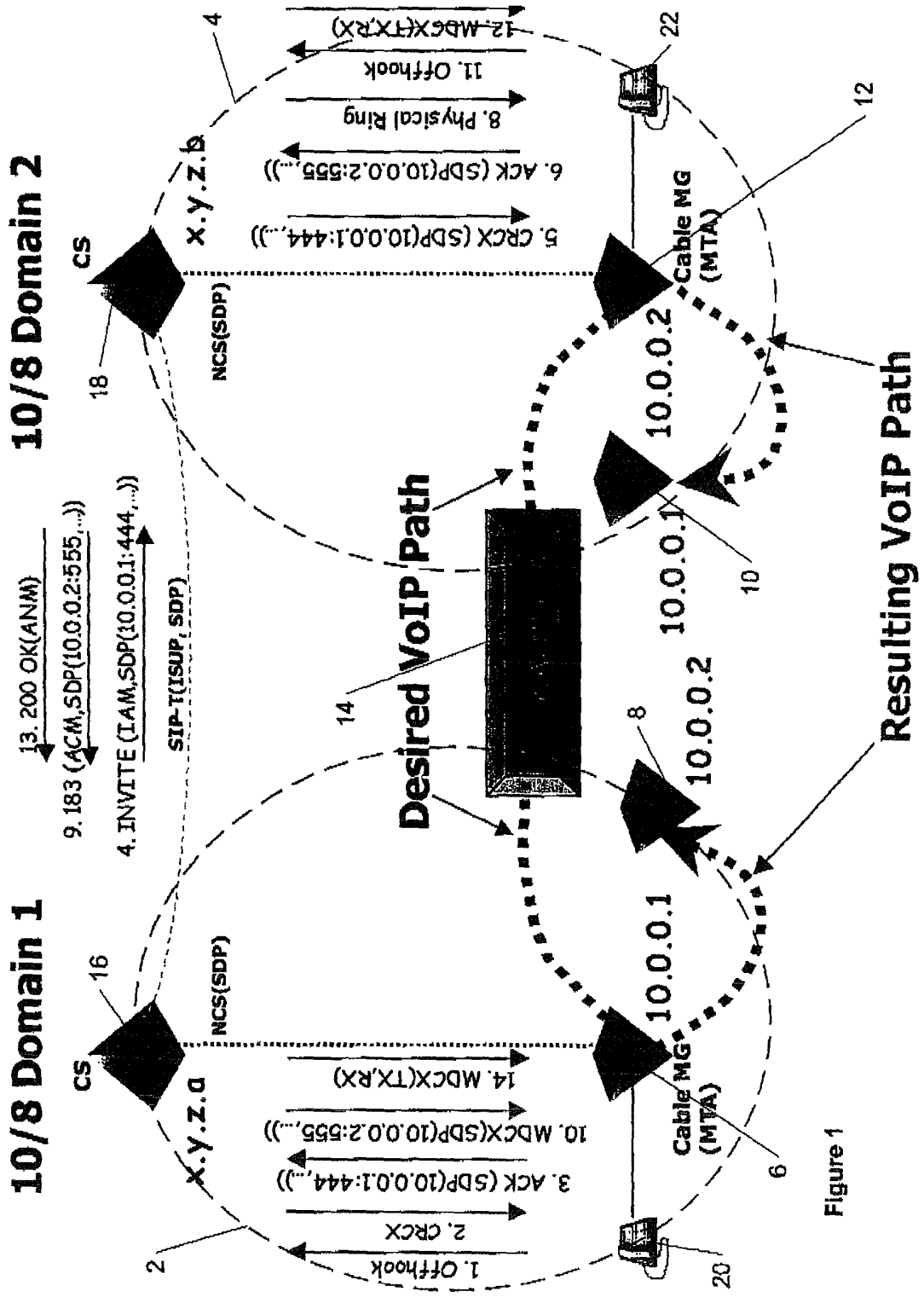
10/8 Domain 1
10/8 Domain 2
x.y.z.a
x.y.z.b
CS
CS
NCS(SDP)
NCS(SDP)
Cable MG (MTA)
Cable MG (MTA)
1. Offhook
2. CRCX
3. ACK (SDP(10.0.0.1:444,...))
10. MDCX(SDP(10.0.0.2:555,...))
14. MDCX(TX,RX)
5. CRCX (SDP(10.0.0.1:444,...))
6. ACK (SDP(10.0.0.2:555,...))
8. Physical Ring
11. Offhook
12. MDCX(TX,RX)
9. 183 (ACM,SDP(10.0.0.2:555,...))
4. INVITE (IAM,SDP(10.0.0.1:444,...))
13. 200 OK(ANM)
SIP-T(ISUP, SDP)
10.0.0.1
10.0.0.2
10.0.0.2
10.0.0.1
Desired VoIP Path
Resulting VoIP Path
2
4
6
8
10
12
14
16
18
20
22

Figure 1

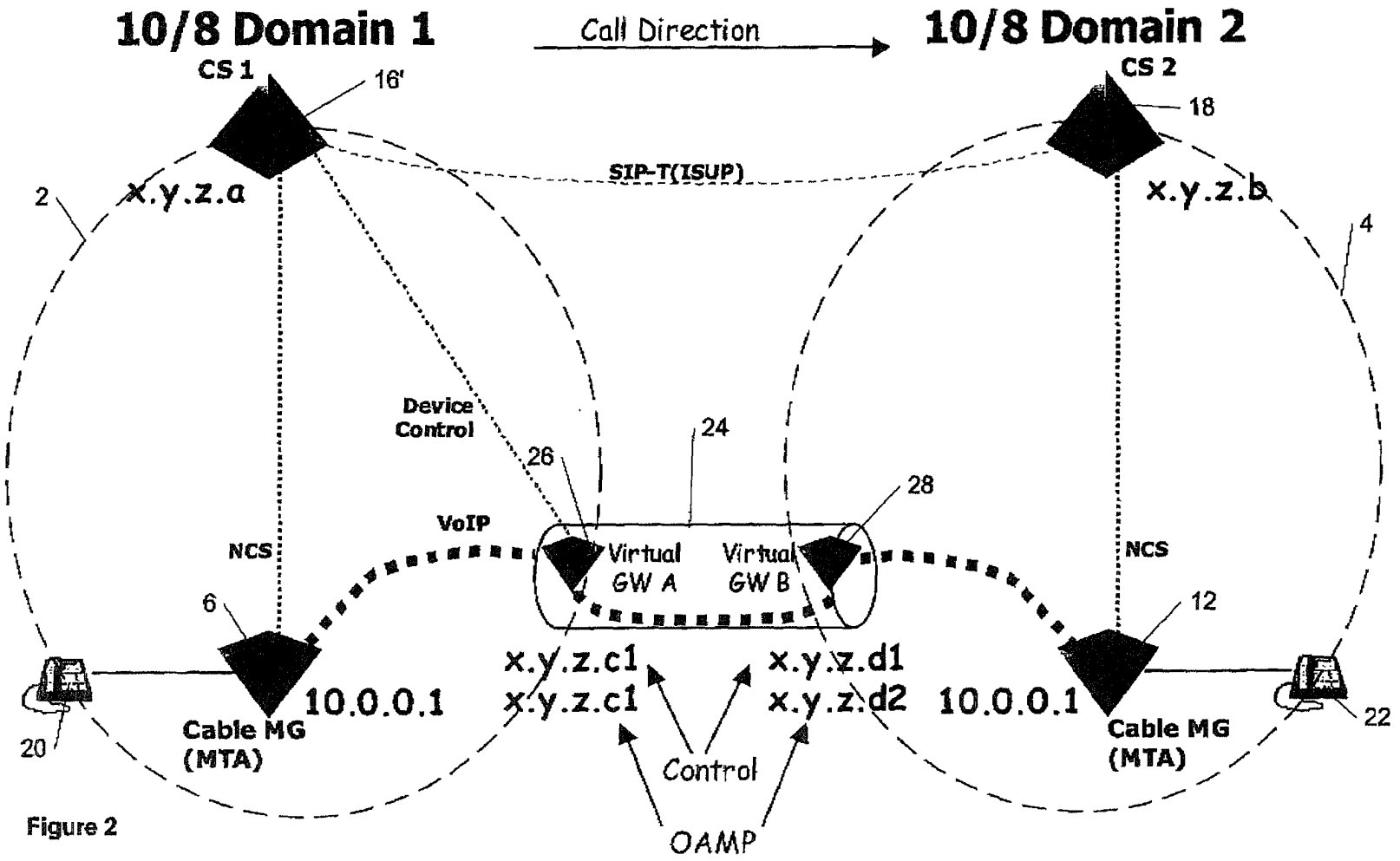
10/8 Domain 1
Call Direction
10/8 Domain 2
CS 1
16'
CS 2
18
SIP-T(ISUP)
2
x.y.z.a
x.y.z.b
4
Device Control
26
24
28
VoIP
NCS
Virtual GW A
Virtual GW B
NCS
6
12
x.y.z.c1
x.y.z.c1
x.y.z.d1
x.y.z.d2
10.0.0.1
10.0.0.1
Cable MG (MTA)
Cable MG (MTA)
20
22
Control
OAMP

Figure 2

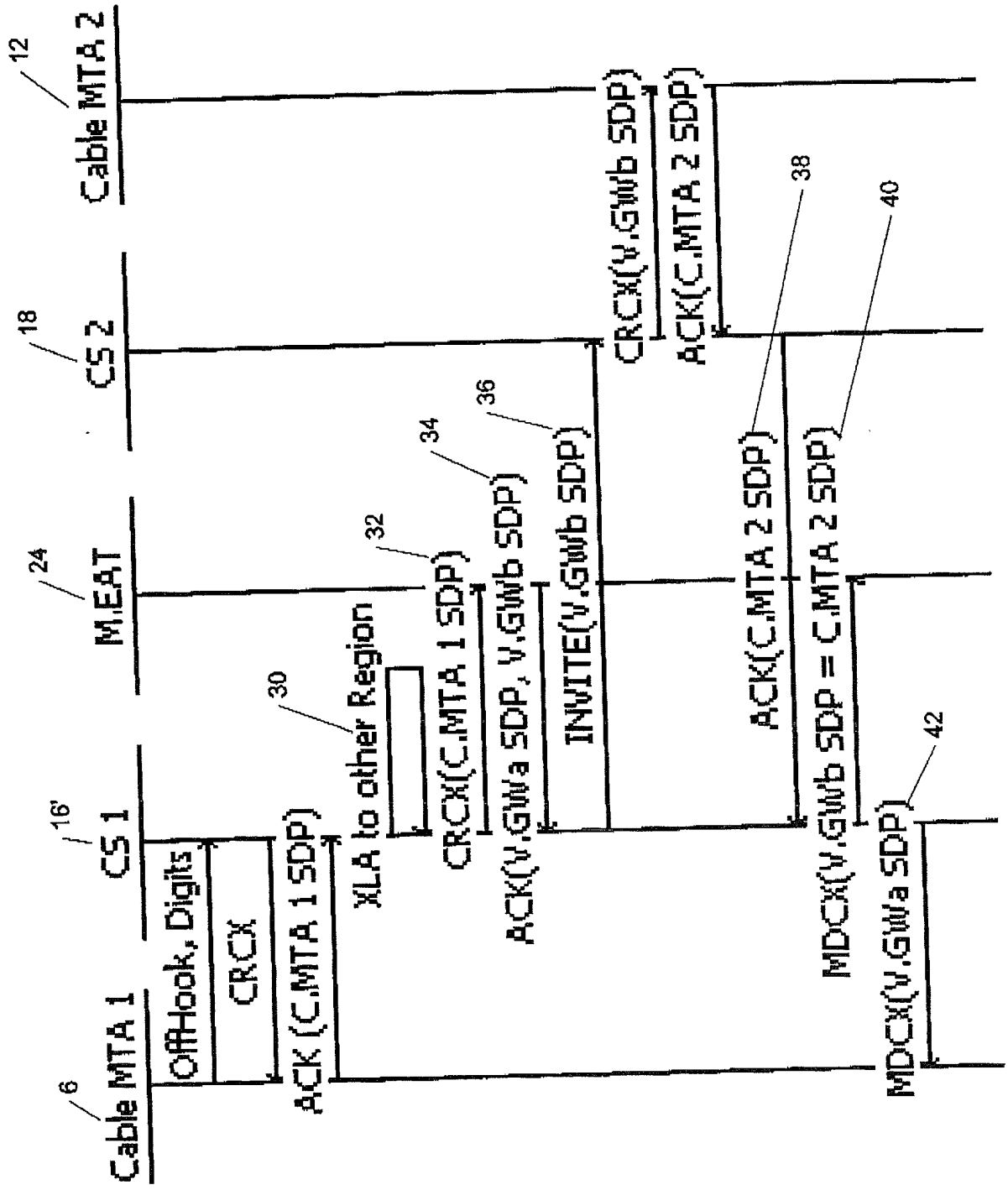
Cable MTA 1
6
CS 1
16'
M.EAT
24
CS 2
18
Cable MTA 2
12
OffHook, Digits
CRCX
ACK (C.MTA 1 SDP)
30
XLA to other Region
32
CRCX(C.MTA 1 SDP)
34
ACK(V.GWa SDP, V.GWb SDP)
36
INVITE(V.GWb SDP)
CRCX(V.GWb SDP)
ACK(C.MTA 2 SDP)
38
ACK(C.MTA 2 SDP)
40
MDCX(V.GWb SDP = C.MTA 2 SDP)
MDCX(V.GWa SDP)
42

Figure 3

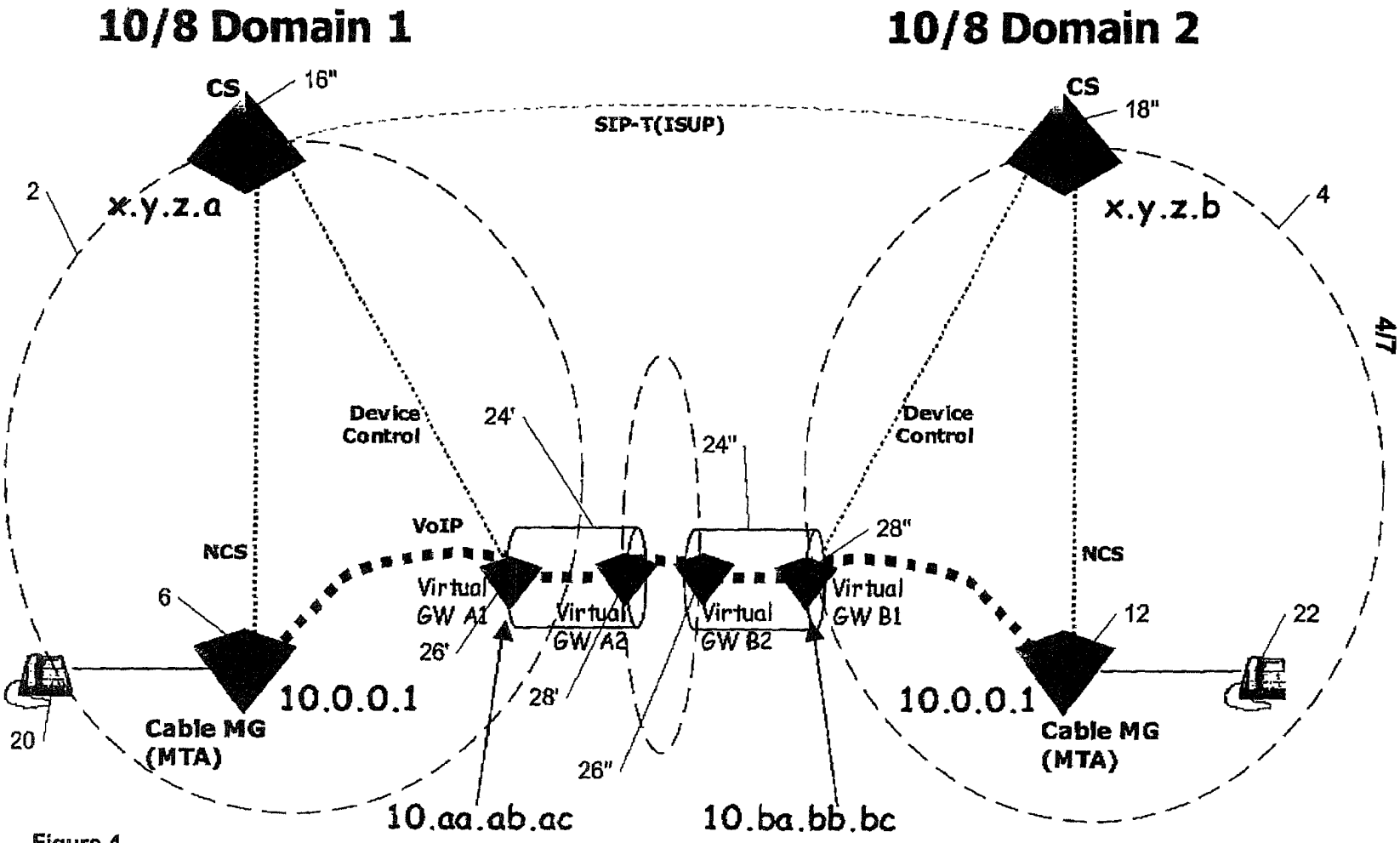
10/8 Domain 1
10/8 Domain 2
CS
16"
SIP-T(ISUP)
CS
18"
2
x.y.z.a
x.y.z.b
4
Device Control
24'
24"
Device Control
VoIP
NCS
28"
NCS
Virtual GW A1
Virtual GW A2
Virtual GW B2
Virtual GW B1
6
26'
28'
12
22
10.0.0.1
10.0.0.1
20
Cable MG (MTA)
Cable MG (MTA)
26"
10.aa.ab.ac
10.ba.bb.bc

Figure 4

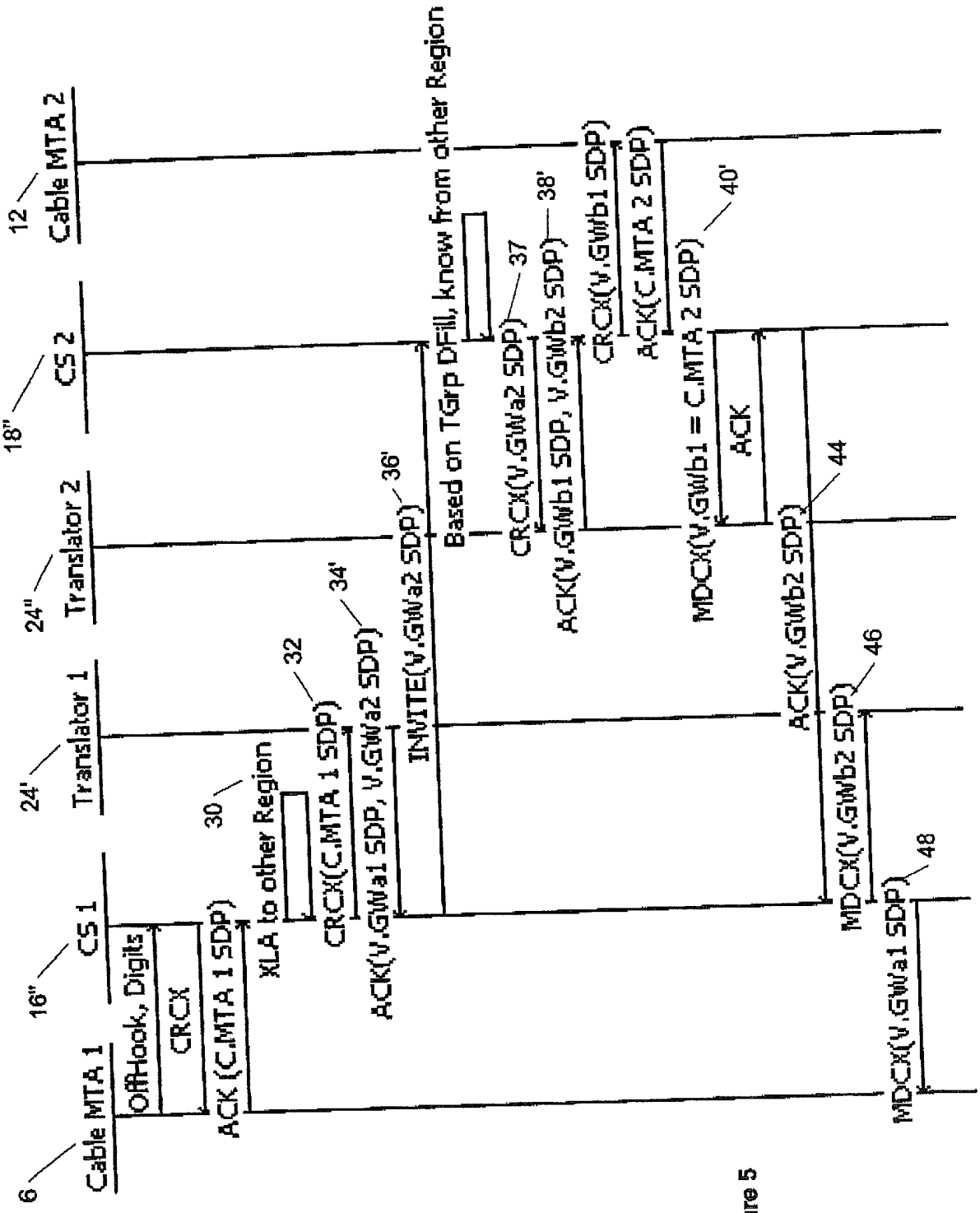
6
Cable MTA 1
16"
CS 1
24'
Translator 1
24"
Translator 2
18"
CS 2
12
Cable MTA 2
OffHook, Digits
CRCX
ACK (C.MTA 1 SDP)
30
XLA to other Region
32
CRCX(C.MTA 1 SDP)
34'
ACK(V.GWa1 SDP, V.GWa2 SDP)
INVITE(V.GWa2 SDP)
36'
Based on TGrp DFill, know from other Region
37
CRCX(V.GWa2 SDP)
38'
ACK(V.GWb1 SDP, V.GWb2 SDP)
CRCX(V.GWb1 SDP)
ACK(C.MTA 2 SDP)
40'
MDCX(V.GWb1 = C.MTA 2 SDP)
ACK
44
ACK(V.GWb2 SDP)
46
MDCX(V.GWb2 SDP)
48
MDCX(V.GWa1 SDP)

Figure 5

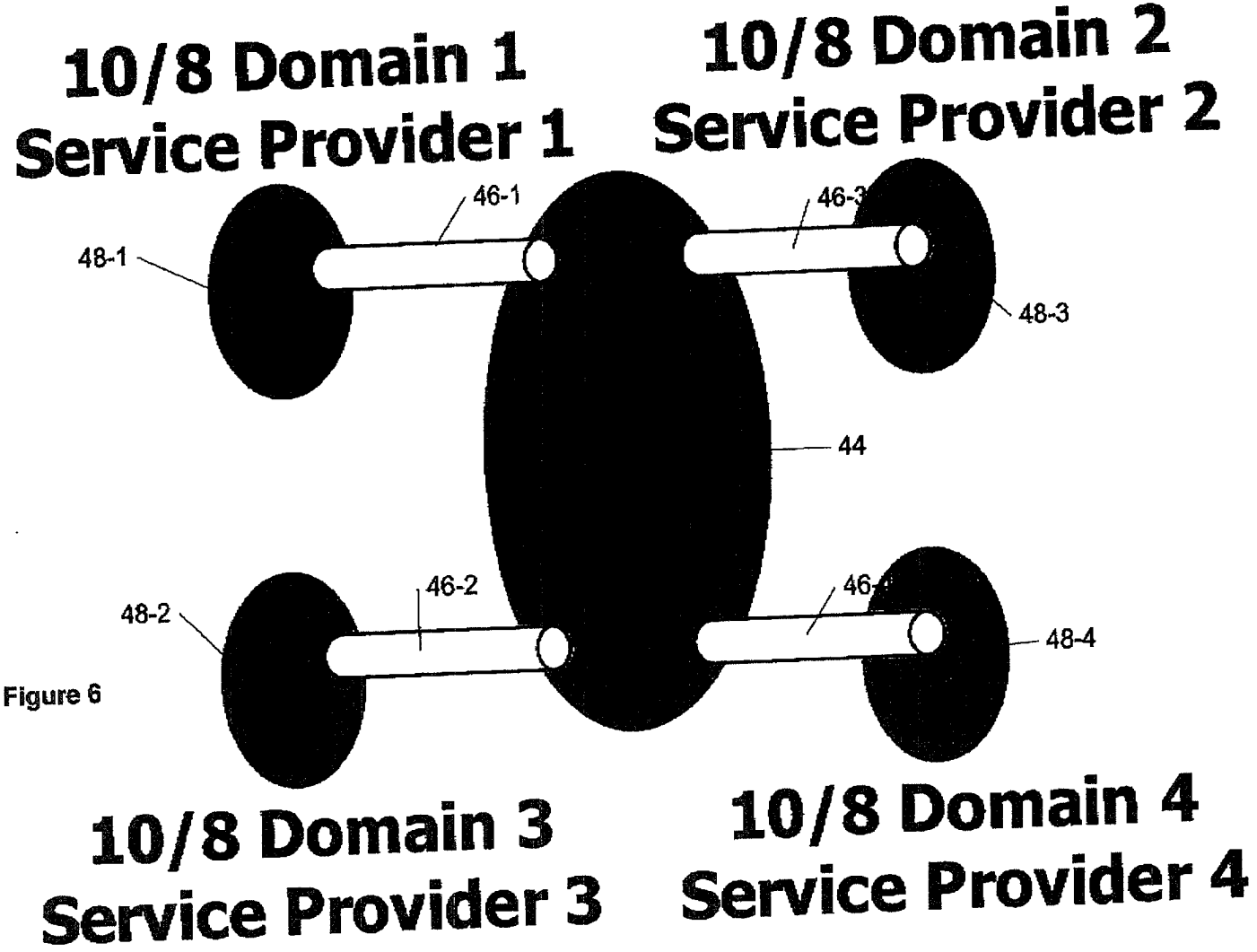
10/8 Domain 1
Service Provider 1
10/8 Domain 2
Service Provider 2
46-1
48-1
46-3
48-3
44
46-2
48-2
48-4
10/8 Domain 3
Service Provider 3
10/8 Domain 4
Service Provider 4

Figure 6

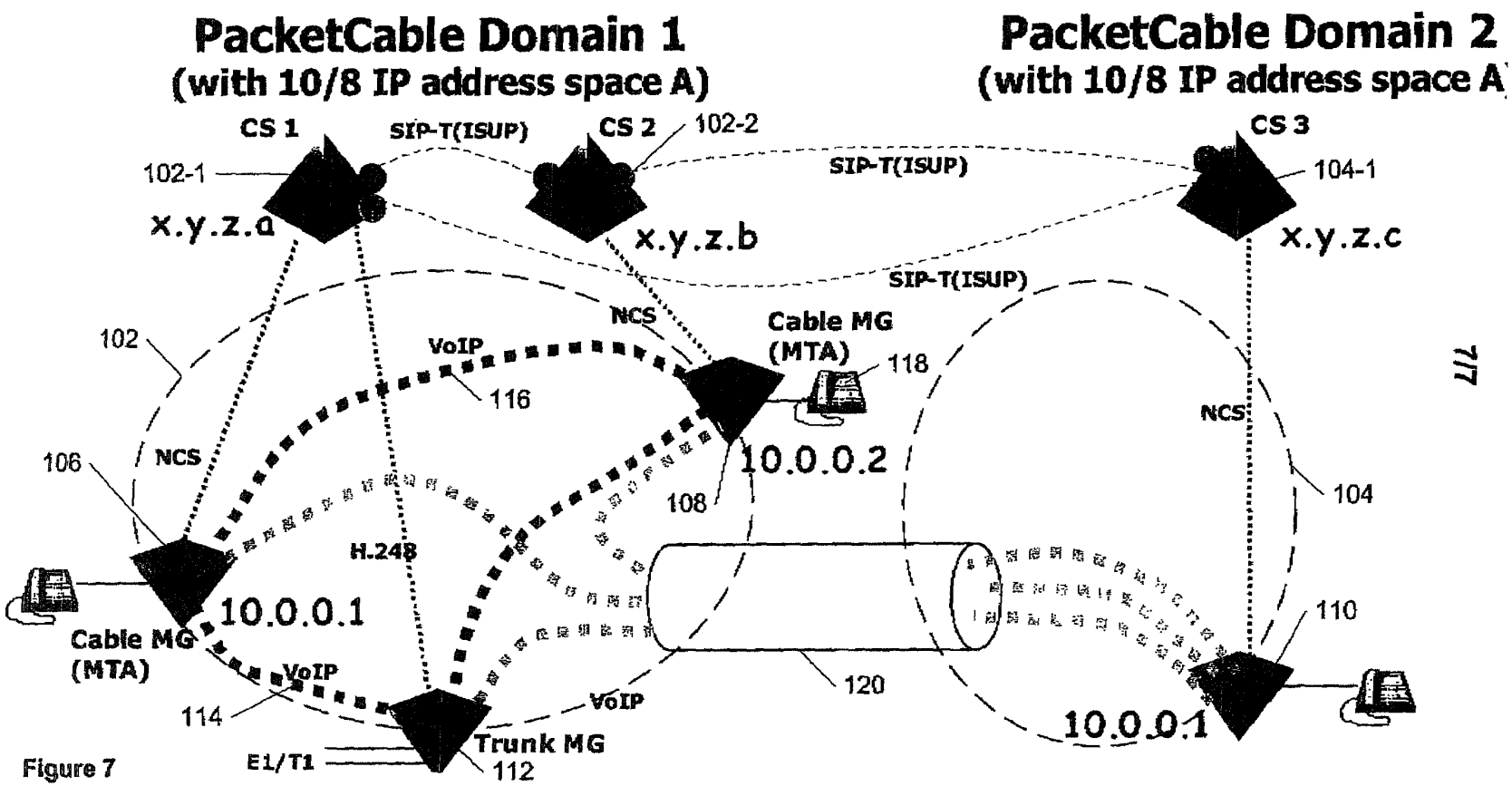
PacketCable Domain 1
(with 10/8 IP address space A)
PacketCable Domain 2
(with 10/8 IP address space A)
CS 1
SIP-T(ISUP)
CS 2
102-2
CS 3
102-1
104-1
x.y.z.a
x.y.z.b
x.y.z.c
SIP-T(ISUP)
SIP-T(ISUP)
102
NCS
VoIP
Cable MG
(MTA)
118
116
NCS
106
NCS
10.0.0.2
108
104
H.248
10.0.0.1
110
Cable MG
(MTA)
VoIP
120
114
VoIP
10.0.0.1
E1/T1
Trunk MG
112

Figure 7

717